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TITLE: AUDIO DATA REPRODUCING DEVICE

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ABSTRACT:

PURPOSE: To obtain digital audio waveform data in various sampling cycles while using a Bezier system by interpolating digital audio data with a Bezier curve and converting the data to analog data in an arbitrary sampling cycle.

CONSTITUTION: Source voices are sampled by a microphone 1, and the analog voices are amplified by an amplifier 2, converted to the digital audio waveform data by an A/D converter 3 and approximated by a **third-order** Bezier curve

approximation part 4. In respect to the data interpolated by the Bezier curve approximation part 4, an arbitrary sampling pitch is designated as a pitch designation part 5, and a restorage part 6 restores the digital audio waveform data based on the Bezier curve. The restored digital audio waveform data are converted to analog audio waveform data by a D/A converter 7 and reproduced through an amplifier 8 by a speaker 9. Therefore, since the pitch designation part 5 arbitrarily designates the number of pitches, the restorage part 6 can restore the digital audio waveform data based on the third-order Bezier curve.

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